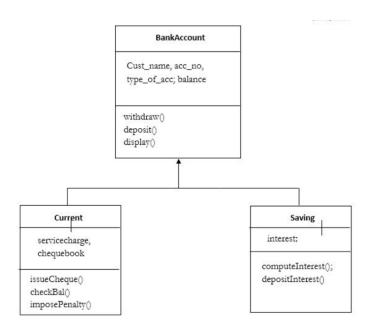
Assignment 1- CSE 103

1> Class Diagram -



Program:

```
#include<iostream.h>
#include<stdio.h>
#include<math.h>
#include<conio.h>
#include<string.h>

class account{

protected:
    char cname[20];
    int accno;
    char type;
```

```
int bal;
public:
   account()
    {
    strcpy(cname," ");
     accno=0;
     type=' ';
     bal=0;
    }
   void input(){
     cout<<"Enter cname";cin>>cname;
    cout<<"Enter accno";cin>>accno;
     fflush(stdin);
     cout<<"Enter type"; cin>>type;
     fflush(stdin);
     cout<<"Enter bal";cin>>bal;
    }
   void display(){
       cout<<"\n Customer Name "<<cname;</pre>
       cout<<"\n Account Number "<<accno;
       cout<<"\n Type "<<type;
       cout<<"\n Balance "<<bal;
   }
   void deposit(){
       int amt;
       cout<<"\n Enter the amount to deposit";</pre>
       cin>>amt;
       bal=bal+amt;
   }
};
class savacct:public account{
```

```
int inter;
   public:
   int comp_int(){
     int time1,rate1;
     rate1=10;
     cout<<"\n Enter time";cin>>time1;
     inter=bal*pow(1+rate1/100.0,time1)-bal;
     return inter;
    }
   void update_bal(){
     bal=bal+comp_int();
    }
   void withdrawal(){
     int amt;
     cout<<"\n Enter amount to withdrawn";</pre>
     cin>>amt;
     if(bal>=amt){
         bal=bal-amt;
     }
     else{
         cout<<"\n The amount cannot be withdrawn";
     }
   }
 };
class curacct:public account{
    int chq_bk;
    int penal;
```

```
public:
    int min_bal(){
      int ret1=1;
      if(bal<=500){
        penal=50;
        bal=bal-penal;
        ret1=0;
      }
      else{
       cout<<"\n No penality imposed";</pre>
      return ret1;
   }
   void withdrawal(){
      int amt;
      cout<<"\n Enter the amount to withdrawn";</pre>
      cin>>amt;
      int k=min_bal();
      if(k==1){
        if(bal>=amt)
        bal=bal-amt;
      else{
        cout<<"\n The amount cannot be withdrawn";</pre>
      }
   }
 };
void main(){
   curacct c1;
```

```
savacct s1;
c1.input();
c1.display();
c1.deposit();
c1.display();
c1.withdrawal();
c1.display();
s1.input();
s1.display();
s1.deposit();
s1.display();
s1.withdrawal();
s1.display();
```

